JENS T. BIRKHOLZER

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Researcher ID: C-6783-2011

EDUCATION

1982-1985	University of Technology, Aachen. B.Sc. in Civil Engineering, 1985.
1985-1988	University of Technology, Aachen. M.Sc. in Water Resources, Hydraulic
	Engineering, Soil and Rock Mechanics, 1988.
1989-1994	University of Technology, Aachen. Ph.D. in Subsurface Hydrology, 1994.

RESEARCH INTERESTS

Subsurface hydrology with emphasis on fluid, gas, solute and heat transport in complex subsurface systems such as saturated and unsaturated porous or fractured media. Current work includes:

- Hydrological and geological evaluations of deep radionuclide waste disposal sites
- Risk assessment of geologic repositories for radioactive waste
- Temperature-driven flow and transport processes in geologic repositories for radioactive waste (experiments and predictive modeling)
- Assessment of CO₂ sequestration in deep geological formations (leakage pathways, impact on groundwater, geomechanical changes, basin-scale evaluations)
- Groundwater remediation

CURRENT POSITION AND PROFESSIONAL EXPERIENCE

Since 2014	Deputy Director, Earth Sciences Division, Lawrence Berkeley National
	Laboratory (LBNL)
Since 2008	Program Lead, Nuclear Energy and Waste, Earth Sciences Division, LBNL
Since 2001	Staff Scientist and Group Leader, Earth Sciences Division, LBNL
1999 - 2001	Chief Engineer and Project Manager, Construction of the New International
	Airport in Dusseldorf, HOCHTIEF AG, Germany
1994 - 1998	Geological Scientist, Earth Sciences Division, LBNL
1989 - 1994	Research Associate (since 1993 Group Leader), Institute of Hydraulic
	Engineering and Water Resources Management (IWW), University of
	Technology, Aachen, Germany

HONORS AND AWARDS:

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2012	Director's Award for Exceptional Achievement (TOUGH codes), by LBNL
2007, 1997	Outstanding Performance Award, by LBNL
1995 - 1996	Postdoctoral fellowship granted by the Humboldt-Stiftung
1995	Friedrich-Wilhelm Award for Summa Cum Laude Ph.D. Thesis
1995	Borchers Award for Summa Cum Laude Ph.D. Thesis
1994 - 1995	Postdoctoral fellowship granted by the DAAD
1989	Research-fellowship granted by the DAAD
1989	Springorum Award for Summa Cum Laude M.Sc.
1989	Hünnebeck Award for best Master Thesis
since 1986	Studienstiftung des Deutschen Volkes, Scholarship for Excellent Students

PUBLICATIONS

Dr. Birkholzer has over 300 scientific publications, about 90 of which are in peer-reviewed journals, in addition to numerous research reports.